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What is claimed is:

 A method for providing a triggering mechanism in an all-IP wireless communication system, comprising the steps of:

probing a plurality of communication paths between a mobile terminal and a correspondent node to obtain at least one QoS parameter associated with each said communication path:

identifying each said communication path that provides a predetermined acceptable level of performance; and

generating a handoff trigger to said communication path that provides the highest level of performance to said mobile terminal.

- The method of claim 1, wherein said at least one QoS parameter is selected from a group of QoS parameters consisting of packet delay, packet jitter, packet loss and bandwidth.
- The method of claim 1, further comprising the step of ranking each said communication path according to a predicted level of performance.
- 4. The method of claim 3, wherein said ranking step uses a weighted-based ranking.
- The method of claim 3, wherein said ranking step uses a perceptionbased ranking.
- The method of claim 1, wherein said correspondent node comprises a fixed terminal.
- The method of claim 1, wherein said correspondent node comprises a mobile terminal.

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- The method of claim 1, further comprising the step of considering a cost factor.
- The method of claim 1, further comprising the step of considering a user preference setting on said mobile terminal.
- The method of claim 1, further comprising the step of considering load balancing on said all-IP wireless communication system.
- 11. A method for providing a triggering mechanism in an all-IP wireless communication system, comprising the steps of:
 - establishing a plurality of end-to-end communication paths between a mobile terminal and a correspondent node;
 - obtaining at least one QoS parameter for each said end-to-end communication path;
 - identifying each said end-to-end communication path that satisfies a predetermined acceptable level of performance; and
 - generating a handoff trigger to said end-to-end communication path that provides the highest QoS to said mobile terminal.
- 12. The method of claim 11, wherein said at least one QoS parameter is selected from a group of QoS parameters consisting of packet delay, packet jitter, packet loss and bandwidth.
- 13. The method of claim 11, further comprising the step of ranking each said communication path according to a predicted level of performance.
- The method of claim 13, wherein said ranking step uses a weightedbased ranking.

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- 15. The method of claim 13, wherein said ranking step uses a perception-based ranking.
- The method of claim 11, wherein said correspondent node comprises a fixed terminal
- The method of claim 11, wherein said correspondent node comprises a mobile terminal.
- 18. A method for providing triggering mechanism in an all-IP wireless communication system, comprising the steps of:

providing a mobile terminal connected to a plurality of AP/R pairs;

obtaining for each AP/R pair at least one QoS parameter that is defined by an end-to-end communication path between said mobile terminal and a correspondent node;

identifying each said AP/R pair that passes a predefined QoS requirement associated with said QoS parameter;

ranking said AP/R pairs according to a predicted level of performance using said at least one QoS parameter; and

generating a handoff trigger directing said mobile terminal to hand off to said AP/R pair providing a highest QoS to said mobile terminal.

- 19. The method of claim 18, wherein said at least one QoS parameter is selected from a group of QoS parameters consisting of packet delay, packet jitter, packet loss and bandwidth.
- The method of claim 18, wherein said ranking step uses a weightedbased ranking.

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- 21. The method of claim 18, wherein said ranking step uses a perception-based ranking.
- 22. The method of claim 18, wherein said correspondent node comprises a fixed terminal.
- 23. The method of claim 18, wherein said correspondent node comprises a mobile terminal.